Appl. No. 09/774,832
Amdt. dated Feb. 14, 2005
Reply to Office action of October 14, 2004

Patent
Docket No. CS-3

Amendments to the Specification:

Please replace the paragraph on originally filed page 18 that included lines 4 through 17, which is paragraph [0051] in the published application (No. US2002/0136288 A1), with the following amended paragraph:

[0051] In the preferred embodiment, the Nyquist filter is implemented as a digital filter at a 65 times oversample rate. The truncation length is eight symbol periods long, or sixteen total symbol periods, giving the number of the number of taps as sixteen times sixty-five, or one thousand twenty-four total taps. The filter is implemented in polyphase form, where the unique data inputs occur at the symbol rate. Polyphase implementation of digital filters is a well known digital technique to the those of ordinary skill in the at art. Theoretical Nyquist filters are not realizable (since infinite time in both directions is necessary to fully realize the theoretical stop band properties of the filter). Practical Nyquist filters are made by time delaying and truncating the infinite impulse response. After choosing the α factor, the oversample rate (65) and the number of symbol time delays for the filter to realize the symbol value (8), fully specifies the filter tap values for the example raised cosine class of filters.